Internal Representation and Behavioural Synthesis of Control Dominated Applications (1996) (Make

Corrections) (3 citations)

Peeter Ellervee, Anshul Kumar, Bengt Svantesson, Ahmed Hemani ESD Lab, Dept. ... View or download:
 ele.kth.se/ESD/doc/ar96...norchip.ps.gz
Cached: PS.gz PS PDF Image Update Help

From: <u>ele.kth.se/ESD/..PublicationList</u> (more) (Enter author homepages)



Home/Search Bookmark Context

Related

(Enter summary)

Rate this article: 1 2 3 4 5 (best)

Comment on this article

Abstract: In this paper we address problems encountered in behavioural synthesis of control dominated applications that are common in telecommunications. An internal representation, optimized for capturing control dominated behaviours and a synthesis strategy that takes into account the control flow is presented. Results of applying this strategy to realistic examples is presented and compared to commercial behavioural synthesis tools. 1. Introduction There are several applications which require ASICs... (Update)

Context of citations to this paper: More

.... how to map process structures from SDL into IRSYD [12] as well as a conceptual work for the internal representation of control flows [4]. Our intent is to present a generic mapping scheme to convert communication constructs from external languages into IRSYD in a consistent...

...proposed evolution of the AKKA design flow to AKKA, described in figure 32. **AKKA will use a graph based internal representation, XFC [29], to improve the hardware efficiency, estimations, and interface synthesis.** VHDL will be added as a front end language. FIGURE 33....

Cited by: More

ProGram: A Grammar-Based Method for Specification and Hardware.. - Öberg (1999) (Correct)
Hardware/Software Partitioning of Telecommunication Systems - O'Nils (1996) (Correct)

A Generic Scheme for Communication Representation and.. - Meincke, Jantsch.. (1999) (Correct)

Similar documents (at the sentence level):

5.4%: High-Level Synthesis of Control and Memory Intensive Applications - Ellervee (2000) (Correct)

Active bibliography (related documents): More All

0.3: Automatic Diagnosis of VLSI Digital Circuits Using.. - Krzysztof Kuchcinski (Correct)

- 0.2: Performance Analysis and Optimization of Schedules for.. Subhrajit Bhattacharya (1994) (Correct)
- 0.2: Retiming DAGs Calland, Mignotte, Peyran, Robert.. (Correct)

System load high. Please wait...

Timeout. Please try your query later.

Similar documents based on text: More All

- 0.5: System-Level Data Format Exploration for.. Ellervee, Miranda, .. (2000) (Correct)
- 0.4: IRSYD An Internal representation for System.. Ellervee, Kumar.. (1997) (Correct)
- 0.4: IRSYD: An Internal Representation for Heterogeneous .. Ellervee, Kumar.. (1998) (Correct)

Related documents from co-citation: More All

- 3: Specification and Design of Embedded Systems (context) Gaiski, Vahid et al. 1994
- 2: SOLAR: An Intermediate Format for System-Level Modelling and Synthesis (context) Jerraya, O'Brien -
- 2: IRSYD: An Internal Representation for Heterogeneous Embedded Systems Ellervee, Kumar et al. 1998

BibTeX entry: (Update)

P. Ellervee, A. Kumar, B. Svantesson, A. Hemani, "Internal Representation and Behavioural Synthesis of Control Dominated Applications". The 14th NORCHIP Conference, pp.142-149, Helsinki, Finland, Nov. 1996. http://citeseer.ist.psu.edu/ellervee96internal.html More

```
@misc{ ellervee96internal,
  author = "P. Ellervee and A. Kumar and B. Svantesson and A. Hemani",
  title = "Internal Representation and Behavioural Synthesis of Control Dominated
  Applications",
  text = "P. Ellervee, A. Kumar, B. Svantesson, A. Hemani, Internal Representation
  and Behavioural Synthesis of Control Dominated Applications. The 14th NORCHIP
  Conference, pp.142-149, Helsinki, Finland, Nov. 1996.",
  year = "1996",
  url = "citeseer.ist.psu.edu/ellervee96internal.html" }
```

Citations (may not include all citations):

206 High-Level Synthesis: Introduction to Chip and System Design (context) - Gajski, Dutt et al. - 1993

14 A Tree-Based Scheduling Algorithm for Control-Dominated Circ.. (context) - Huang, Jeang et al. - 1993

2 Digital Pasigns Principles & Practices (context) - Walkerly, 1994

9 Digital Design: Principles & Practices (context) - Wakerly - 1994

- 8 An Automaton Model for Scheduling Constraints in Synchronous. (context) Takach, Wolf et al. 1995
- 6 A Novel Allocation Strategy for Control and Memory Intensive.. (context) Svantesson, Ellervee et al. 1996
- 5 Synthesis Using Path-Based Scheduling: Algorithms and Exerci.. (context) Camposano, Bergamaschi 1990
- 4 Scheduling of Behavioural VHDL by Retiming Techniques (context) Wehn, Biesenack et al. 1994

3 Digital Circuits and Logic Design (context) - Lee - 1976

2 LSI Digital Devices on Programmable Matrix Structures (context) - Baranov, Sklyarov - 1986

1 Modelling and Synthesis of Operational and management System (context) - Svantesson, Hemani et al. -1995

Documents on the same site (http://www.ele.kth.se/ESD/doc/PublicationList.html): More Flexible codesign target architecture for early.. - Tammemäe, O'Nils, Hemani (Correct)
Comparison of Four Heuristic Algorithms for Unified.. - Ellervee, Kumar, Hemani (1997) (Correct)
An Efficient Scheme for Hardware Implementation of.. - Svantesson, Kumar.. (1997) (Correct)

Online articles have much greater impact More about CiteSeer Add search form to your site Submit documents Feedback

CiteSeer - Copyright NEC and IST

CiteSeer Find: FSM to VHDL Documents Citations

Searching for fsm w/2 vhdl.

Restrict to: <u>Header Title</u> Order by: <u>Expected citations Hubs Usage Date Try: Google (CiteSeer)</u>
Google (Web) CSB DBLP

11 documents found. Order: number of citations.

Design of a GSM Vocoder using SpecC Methodology - Gerstlauer, Zhao, Gajski (1999) (Correct) (2 citations)

encoder ASIC partition (Note: DataIn and DataOut **FSM**D for behaviors other than the 2nd Levinson-Durbin .38 50 Behavior prefilter **FSM**D.

Listing for the code book search 78 F Behavioral **VHDL** Source Listing for the code book search 95 G RTL www.ics.uci.edu/pub/cad/cadlab-trs/1999/TR-99-11.vocoder.ps.qz

Internal Representation and Behavioural Synthesis of Control.. - Peeter Ellervee (1996) (Correct) (2 citations)

using the well developed finite state machine (**FSM**) optimization techniques. Based on the ideas, as a finite state machine which can be handled by an **FSM**/logic synthesis tool. In this paper, we present an Figure 1. CMIST synthesis strategy Output **FSM** in **VHDL** /Verilog Extract Arithmetic Components Schedule / www.ele.kth.se/ESD/doc/ar96/lrv/norchip.ps.gz

A Tool Converting Finite State Machine to VHDL - Amr Abdel-Hamid Mohamed (Correct)
Abstract Finite state machines (FSM) are a basic component in hardware design, they
between inputs and outputs for sequential designs. FSMs can be represented graphically, which would help
A Tool Converting Finite State Machine to VHDL Amr T. Abdel-Hamid, Mohamed Zaki and Sofi ene
www.ece.concordia.ca/~tahar/pub/CCECE04-FSM.pdf

Automated Design of Finite State Machine Predictors - Timothy Sherwood Brad (2001) (Correct) Estimation Abstract Finite State Machines (**FSM**) are a fundamental building block in computer we present a framework for automated design of small **FSM** predictors for general purpose and customized expression is then converted into a **FSM**. The **VHDL** for synthesis is then generated from the **FSM**. www.cse.ucsd.edu/~calder/papers/FSM.pdf

comp.lang.vhdl Frequently Asked Questions And Answers...- Preliminary Remarks This (Correct)
Translators .54 5. VHDL FSM/Schematic Translators .54 5.1
Translators .54 5.1 Free FSM/Schematic -VHDL Translators .55 5.2
comp.lang.vhdl Frequently Asked Questions And Answers (Part 3)
tech-www.informatik.uni-hamburg.de/vhdl/doc/faq/FAQ3.pdf

BDDBased Testability Estimation of VHDL Designs - Ferrandi, Fummi, Macii... (1996) (Correct) is described in VHDL as a network of interacting FSMDs. In addition# it is assumed that the testability usually speci#ed through a network of interacting FSMs #IFSM#In this sense# we can claim that the Euro-Dac '96 With Euro-Vhdl '96 0-89791-848-7/96 \$4.00 1996 leee Bdd#based herkules.informatik.tu-chemnitz.de/proceedings/eurodac-96/papers/1996/eurdac96/htmfiles/sun_sgi/.././pdffiles/v04_1.pdf

<u>Automated Design of Finite State Machine Predictors for. - Sherwood, Calder (2001) (Correct)</u> shrinking design times. Finite State Machines (**FSM**) are a fundamental building block in computer we present a framework for automated design of small **FSM** predictors for customized processors. Our approach

expression is then converted into a **FSM**. The **VHDL** for synthesis is then generated from the **FSM**. www-cse.ucsd.edu/~calder/papers/ISCA-01-FSM.ps

Application Specific Processor Synthesis from... - Tammemäe, Udre... (Correct) by a finite state machine. Hence we use a **FSM** model as internal representation for state for state extraction and scheduling. The **FSM** is a Moore type automaton. The internal Processor Synthesis from Assembler Code using **VHDL** K. Tammemae, J. Udre Tallinn Technical University www.ele.kth.se/%7Enalle/asiapap.ps.gz

Tools for mapping applications to CCMs - Mark Jones Michael (1998) (Correct) inner product: A tree-structured graph with a small **FSM**, 4 adders and 4 multipliers The **FSM** is assigned to with a small **FSM**, 4 adders and 4 multipliers The **FSM** is assigned to the CPU and the adders/multipliers a DSP Select from a library or write from scratch **VHDL**, C, assembly, etc for each of the tasks (cells) www.ccm.ece.vt.edu/papers//spie2.pdf

A Dedicated Circuit for Charged Particles Simulation. - Negoi, Guyot, Zimmermann (Correct)

Design of datapath architecture Design of operators FSM description (VHDL) and synthesis Processor architecture Design of operators FSM description (VHDL) and synthesis Processor description (structural and synthesis Processor description (structural VHDL) Validation VHDL simulation (logical gate level) verdon.imag.fr/pub/ISD/postscript/asap97.ps.gz

BDD-Based Testability Estimation of VHDL Designs - Ferrandi, Fummi, Macii.. (1996) (Correct) is described in VHDL as a network of interacting FSMDs. In addition, it is assumed that the testability usually specified through a network of interacting FSMs (IFSM)In this sense, we can claim that the BDD-Based Testability Estimation of VHDL Designs Fabrizio Ferrandi Franco Fummi ipeca4.elet.polimi.it/pub/paper/ffm96c.ps.gz

Try your query at: Google (CiteSeer) Google (Web) CSB DBLP

CiteSeer - Copyright NEC and IST